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IN THE UNITED STATESEPATENTEAND TRADEMARK O

Applicant:

James Chen

Serial No.:

10/091,144

Filed:

March 4, 2002

For:

USE OF PHOTOLUMINESCENT

NANOPARTICLES FOR

PHOTODYNAMIC THERAPY

Art Unit:

1615

I hereby certify that this paper and the attached papers are being deposited with the United States Postal Service as first class mail in an

envelope addressed to: Commissioner for Patents

U.S. Patent and Trademark Office

P.O. Box 2327

Arlington, VA 22202, on this date.

08/30/02 Date

Kimila Carraway

REQUEST FOR CORRECTED FILING RECEIPT

Commissioner for Patents U.S. Patent and Trademark Office P.O. Box 2327 Arlington, VA 22202

Sir:

Under **DOMESTIC PRIORITY DATA AS CLAIMED BY APPLICANT**, please insert the following CORRECTED Priority Information:

--THIS APPLICATION CLAIMS BENEFIT TO 60/272,877 03/02/2001
AND CLAIMS BENEFIT TO 09/798,277 03/02/2001, WHICH APPLICATION
WAS CONVERTED TO A PROVISIONAL APPLICATION ON 02/26/2002--

Applicants hereby submit the following documents for which issuance of a Corrected Filing Receipt is respectfully requested in the above application:

- Copy of Response to Request for Corrected Filing Receipt, mailed May 29, 2002;
- Copies of return postcard and Transmittal of Utility Application Under 37
 C.F.R., Section 1.53, submitting Utility Application and copy of Petition to
 Convert Non-Provisional Application to Provisional Application, sent via
 Express Mail on March 4, 2002;

- Copies of return postcard, check in the amount of \$50.00, Transmittal

 Letter, Petition to Convert Non-Provisional Application to Provisional

 Application and page 1 of specification, sent via Priority Mail on February 26, 2002;
- 4) Copy of Updated Filing Receipt with corrections noted thereon. Applicants respectfully request that this error be corrected and Applicants be provided a new Official Filing Receipt.
 - The Commissioner is hereby authorized to charge any fee, that may be due in connection with this and the attached papers, or with this application during its entire pendency to or to credit any overpayment to Deposit Account No. 50-1213.

Respectfully submitted,
HELLER EHRMAN WHITE & McAULIFFE LLP.

By:

Stephanie Seidman Registration No. 33,779

SLS:kcc
Attorney Docket 25886-0066B
Address all correspondence to:
HELLER EHRMAN WHITE & McAULIFFE LLP.
4350 La Jolla Village Drive, 7th Floor
San Diego, California 92122-1246

Telephone: (858) 450-8400 Facsimile: (858) 587-5360 E-mail: sseidman@HEWM.com

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, DC 20231

O / A	PPLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO/TITLE	Ì
50	10/091,144	03/04/2002	James Chen	25886-0066B	
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4350	0 La Jolla Village Dri	ve		TER .	
San	Diego, CA 92122		JUN - 4 2002	7	42
		HF	LER FHRMAN	Date Mailed: 05/298002	<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>
				1	

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Domestic Continuity and Foreign Priority

In response to your request for a corrected Filing Receipt, the Office is unable to comply with the request because:	1e
The priority or continuity claim has not been entered because it was not filed during the required time period. Applicant may wish to consider filing a petition to accept an unintentionally delayed claim for priority. See 37 CFR 1.55 or 1.78.	
Continuity claimed under 35 USC 120 cannot be added to the Filing Receipt without the applicant supplying the relationship (continuation, divisional, or continuation-in-part) in an Application Data Sheet or amendment to the first page of the specification.	
A claim for priority cannot be made based on an application filed after the application making the claim.	3
Domestic and foreign priority claims will not be captured in a provisional application. A provisional application is not entitled to a right of priority or to the benefit of an earlier filing date of any other application. See 35 USC 111(b)(7) and 37 CFR 1.53(c)(4).	
A domestic continuity claim cannot be made to a foreign application and the filing receipt will only list the foreign country, application number, and filing date.	
Foreign priority will appear on the Filing Receipt in the following order: Country, Application number, Filing date.	

Neng Prairies

Customer Service Center,'
Office of Initial Patent Examination
(703) 308-1202

THE STAMP OF THE U.S. PATENT AND TRADEMARK OFFICE AFFIXED HERETO WILL BE EVIDENCE OF RECEIPT OF THE FOLLOWING (SENT VIA EXPRESS MAIL, LABEL NO. EL870637428US) ON March 4, 2002

Client No.:

25886-0066BSLS/DLR:rhj

Enclosures:

Transmittal of Utility Application Under 37

CFR §1.53 (in Duplicate); Fee Transmittal on

Form (in Duplicate); Specification containing 55 pages including 136 claims and 1-Pg.

Abstract; Copy of Petition to Convert Non-Provisional Application to Provisional Application; 8 Sheets of Drawings (informal) with 12 Figures 1-8B; Check in amount of

Applicant(s):

Chen Filed: March 4, 2002 **USE OF PHOTOLUMINESCENT**

\$1,750.00; and Return Postcard

NANOPARTICLES FOR PHOTODYNAMIC

HERAPY .

SEP O 6 2012 W

TRANSMITTAL OF UTILITY APPLICATION UNDER 37 C.F.R. §1.53

Attorney Docket No.	25886-0066B	
First named inventor	James Chen	
Express mail label #	EL870637428US	
Date of mailing	March 4, 2002	

Application Elements	Accompanying Application Papers	
1. [X] Fee Transmittal Form	6. [] Assignment	
2. [X] Specification containing <u>55</u> pages (including claims and Abstract).	7. [] Preliminary Amendment	
a. Title: USE OF PHOTOLUMINESCENT NANOPARTICLES FOR PHOTODYNAMIC THERAPY	8. [X] Return Receipt Postcard	
b. Number of claims: <u>136</u>	1 · 1	
3. [X] 8 sheets of drawings with 8 Figs.	NTER C OF	
4. [] Unexecuted Declaration listing names of joint inventors	ECEIVED DEC 0 4 2002 CENTER 1600/2900	
5. [] Sequence Listing	ğ U ,	
[] Paper copy (identical to computer copy)	2	
[] Computer readable copy		
[] Verified statement		
	SIGNATURE OF ATTORNEY/AGENT	
	HELLER EHRMAN WHITE & McAULIFFE LLP	
	Dah Migs	
	Dale L. Rieger	
	Registration Number: 43,045	

[X] Benefit of priority claimed under 35 U.S.C.§119(e) to U.S. provisional application Serial No. 60/272,877, filed March 2, 2001; and under 35 U.S.C. §119(e) to U.S. application Serial No. 09/798,277, filed March 2, 2001, which application was converted to a provisional application on February 26, 2002 (copy of petition enclosed).

CORRESPONDENCE ADDRESS					
NAME	Stephanie Seidman Registration No. 33,779 Heller Ehrman White & McAuliffe LLP				
Address	4350 La Jolla Village Drive, 7th Floor, San Diego, CA 92122				
	Telephone: 858/450-8400	Facsimile: 858/587-5360			



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THE STAMP OF THE U.S. PATENT AND TRADEMARK OFFICE AFFIXED HERETO WILL BE EVIDENCE OF RECEIPT OF THE FOLLOWING ISENT VIA FIRST CLASS PRIORITY MAIL) ON February 26, 2002

Client No.:

Enclosures:

25886-P0066BSLS/DLR:rhj

Transmittal Letter (in Duplicate);

Petition to Convert Non-Provisional

Application to Provisional

Application; Power of Attorney by Assignee and Certificate under 37 CFR 3.73(b); Check in amount of \$50.00; and Return Postcard

Applicant(s):

Chen et al. 09/798,277

Serial No.:

Filed:

03/02/01

For:

NOVEL USES OF **PHOTOLUMINESCENT** NANOPARTICLES FOR

PHOTODYNAMIC THERAPY

ient / Matter

<u>Date</u>

Description

<u>Amount</u>

:886-0066

02/26/2002

04

\$50.00

ENDOR CODE:

COMMISSIONER FOR PATENTS 31050

HECK DATE:

02/26/2002

) Operating

CHECK NUMBER:

22789

CHECK REQUEST:

273453

\$50.00

HellerEhrman

Heller Ehrman White & McAuliffe LLP 4250 Executive Square, 7th Floor La Jolla, CA 92037-9103

BANK OF AMERICA

San Francisco Regional nercial Banking Office #1499 345 Montgomery Street San Francisco, CA 94104

22789 022789

Check Date:

02/26/2002

PAY ONLY:

*******\$50.00

PAY FIFTY DOLLARS AND 00 CENTS

COUNTER SIGNATURE REQUIRED FOR AMOUNTS OVER \$2,500.00

TO THE ORDER OF

COMMISSIONER FOR PATENTS WASHINGTON, DC 20231

AUTHORIZED SIGNATURE

121210003581:14990**05472# SER OF TRADENCE AP

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Chen

Serial No.:

09/798,277

Filed:

March 2, 2001

For:

NOVEL USES OF PHOTOLUMINESCENT

NANOPARTICLES FOR PHOTODYNAMIC

THERAPY

Art Unit:

1619

Examiner:

Unassigned

I hereby certify that this paper and the attached papers are being deposited with the United States Postal Service as first classomail in an envelope addressed to:

Commissioner for Patents

Box DAC

Washington, D.C. 20231, on this date.

02/26/02

Date

ta Jennings

TRANSMITTAL LETTER

Commissioner for Patents Box DAC Washington, D.C. 20231

Dear Sir:

Transmitted herewith are a Petition to Convert a Non-Provisional Application to a Provisional Application under 37 CFR 1.53(c)(2), a Power of Attorney by Assignee and Certificate under 37 CFR 3.73(b), and a check for the requisite fee for the Petition (\$50) for filing in connection with the above-identified application.

The Commissioner is hereby authorized to charge any fee, including the fee for the petition and extension of time and additional claims or excess independent claims, that may be due in connection with this and the attached papers or with this application during its entire pendency to Deposit Account No. 50-1213. A duplicate of this sheet is enclosed.

Respectfully submitted,
HELLER EHRMAN WHITE & McAULIFFE LLF

By:

Stephanie L. Seidman Registration No. 33,779

Attorney Docket No. 25886-P0066B

Address all correspondence to:
Stephanie Seidman, Esq.
HELLER EHRMAN WHITE & McAULIFFE LLP
4350 La Jolla Village Drive, 7th Floor
San Diego, California 92122
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Telephone: 858/450-8400 Facsimile: 858/587-5350

E-MAIL: sseidman@hewm.com



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Chen

Serial No.:

09/798,277

Filed:

March 2, 2001

For:

NOVEL USES OF PHOTOLUMINESCENT

NANOPARTICLES FOR PHOTODYNAMIC

THERAPY

Art Unit:

1619

Examiner:

Unassigned

I hereby certify that this paper and the attached papers are being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Commissioner for Patents

Box DAC

Washington, D.C. 20231, on this date.

02/26/02

Date

Rta Jennings

PETITION TO CONVERT NON-PROVISIONAL APPLICATION TO PROVISIONAL APPLICATION

(37 C.F.R. §1.53(c)(2))

Commissioner for Patents BOX DAC Washington, D.C. 20231

Dear Sir:

 \mathbf{X}

Applicant hereby petitions under 37 C.F.R. §1.53(c)(2) to convert the above-referenced application, filed under §1.53(b), to a provisional application. This Petition is made prior to the expiration of 12 months after the filing date of the §1.53(b) application and also prior to the abandonment of the §1.53(b) application. A check including the Petition fee (\$50, 37 C.F.R. 1.17(q)) for the conversion to a provisional application is enclosed.

The Commissioner is hereby authorized to charge any fee, including that submitted herewith if the attached check(s) is in the wrong amount or otherwise improper or missing, that may be due in connection with this and the attached papers, or with this application during its entire pendency to or to credit any overpayment to Deposit Account No. 50-1213. A duplicate of this sheet is enclosed.

Respectfully submitted, HELLER EHRMAN WHITE & McAULIFFE LLP

By:

Stephanie L. Seidman Registration No. 33,779

Attorney Docket No.: 25886-P0066B

Address all correspondence to:

Stephanie Seidman, Esq.

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San Diego, California 92122 Telephone: 858/450-8400 Facsimile: 858/587-5360 e-mail: sseidman@hewm.com



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USE OF PHOTOLUMINESCENT NANOPARTICLES FOR PHOTODYNAMIC THERAPY

RELATED APPLICATIONS

Benefit of priority under 35 U.S.C. 119(e) is claimed to U.S. provisional application Serial No. 60/272,877, filed March 2, 2001, to Chen, entitled "NOVEL USES OF PHOTOLUMINESCENT

NANOPARTICLES FOR PHOTODYNAMIC THERAPY;" and to U.S. application Serial No. 09/798,277, filed March 2, 2001, and converted to a provisional application on February 26, 2002, serial number unavailable, to Chen, entitled "NOVEL USES OF PHOTOLUMINESCENT NANOPARTICLES FOR PHOTODYNAMIC THERAPY." The disclosures of the above-referenced applications are incorporated herein by reference in their entirety.

FIELD OF THE INVENTION

The invention relates generally to photodynamic therapy (PDT), and more specifically to illumination systems, compositions and methods of using light-emitting nanoparticles to activate photosensitive compounds at the target site for PDT.

BACKGROUND

PDT is a form of energy-activated therapy for destroying abnormal or diseased tissue. The procedure for this treatment includes administration of a photosensitive compounds (a PDT drug) to a patent, followed by illumination with light having a wavelength or waveband corresponding to a characteristic absorption wavelength of the photosensitive compound. Upon illumination, the photosensitive compound absorbs photons from the light source and transfers this energy to surrounding oxygen molecules. This in turn induces formation of singlet oxygen and other highly-reactive free radical species, leading to a number of biological effects, including damages to proteins, nucleic acids, lipids, and other cellular components, and often ultimately results in cell death.

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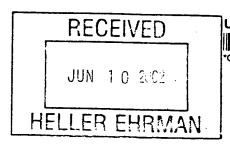
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TED STATES PATENT AND TRADEMARK OFFICE

CENTER 1600/2900 COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231

www.uspto.gov APPLICATION NUMBER FILING DATE **GRP ART UNIT** FIL FEE REC'D ATTY.DOCKET.NO DRAWINGS TOT CLAIMS IND CLAIMS 25886-10/091,144 03/04/2002 1615 1824 8 137 11 0066B

Stephanie Seidman Heller Ehrman White & McAuliffe LLP 7th Floor 4350 La Jolla Village Drive San Diego, CA 92122



CONFIRMATION NO. 7692
UPDATED FILING RECEIPT

OC000000008231265*

Date Mailed: 06/04/2002

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

James Chen, Bellevue, WA;

Domestic Priority data as claimed by applicant

THIS APPLIN CLAIMS BENEFIT OF 60/272,877 03/02/2001
AND CLAIMS BENEFIT TO 09/798,277 03/02/2001, WHICH
Foreign Applications APPLICATION WAS CONVERTED TO A PROVISIONAL
APPLICATION ON 02/24/2002

If Required, Foreign Filing License Granted 04/16/2002

Projected Publication Date: 09/12/2002

N n-Publication Request: No

Early Publication Request: No

** SMALL ENTITY **

Title.

Use of photoluminescent nanoparticles for photodynamic therapy

LICENSE FOR FOREIGN FILING UNDER Titl 35, United States Code, Section 184 Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).